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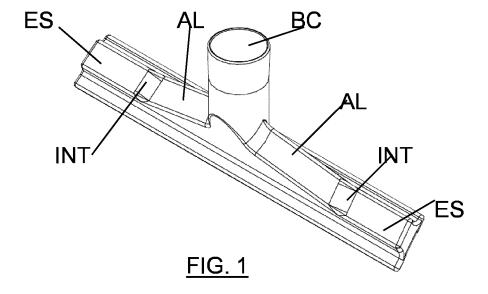
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(54) CLEANING ACCESSORY FOR VACUUM CLEANERS, AND VACUUM CLEANER EQUIPPED WITH SAID ACCESSORY

- (57) A cleaning accessory is described, which is adapted for application to a vacuum cleaner equipped with a motor, and which is further adapted for use on surfaces with joints, characterized in that it is made as one rigid piece equipped with:
- a neck (BC) for fitting to the vacuum cleaner,
- a suction area (AS) shaped as a wide rectangle, having a width dimension (L) and a depth dimension (P), wherein

the width is greater than the depth,

- an enlargement (AL) symmetrically diverging between said neck and said suction area, creating an internal height development between said suction area and said neck having a minimum value in the areas of the two ends (ES) of the accessory and a maximum value at the center towards the neck.





EUROPEAN SEARCH REPORT

Application Number EP 15 18 3097

	DOCUMENTS CONSID	ERED TO BE F	RELEVANT				
Category	Citation of document with in of relevant passa		opriate,		levant claim	CLASSIFICATION OF THE APPLICATION (IPC)	
Х	GB 2 067 889 A (KRE 5 August 1981 (1981	-08-05)	•	1,7	,8,10	INV. A47L9/02	
Α	* page 1, line 77 - figure 1 *	page 2, lin	e 31;	3			
Х	US 5 157 805 A (PIN 27 October 1992 (19		[US])	1,7	,8,10		
Α	* columns 3-5; figu	res *					
Х	US 1 039 383 A (GOUGHNOUR CHA 24 September 1912 (1912-09-24		.ES L [US]) 1,7		,8,10		
Α	* page 1; figures *	·		3			
Х	EP 0 642 758 A1 (PHILIPS ELECTION IN TERMINAL PROPERTY OF THE PROPERTY OF T		ONICS NV)	1,7	,8,10		
Α	* columns 3-5; figu	res *					
Х	GB 2 240 467 A (HOOVER PLC [G 7 August 1991 (1991-08-07))	1,7	,8,10		
Α	* pages 4-5; figure					TEOLINICAL FIELDS	
Х	US 1 951 316 A (ALL 13 March 1934 (1934	EN FRANK B) -03-13)		1,7	,8,10	TECHNICAL FIELDS SEARCHED (IPC)	
Α	* claims; figures *	,		3			
Х	US 4 275 478 A (KOHLENBERGER F 30 June 1981 (1981-06-30)		YMOND W)	1,7	1,7,8,10		
Α	* claims 1-4; figur			3			
X A	US 6 421 875 B1 (COOMBS RICHARD AL) 23 July 2002 (2002-07-23) * columns 4-6; claims; figures 1			1,2 8,1 3	,4,7, 0		
				, ,			
Х	US 2010/319159 A1 (GELL IAN [GB] ET 23 December 2010 (2010-12-23) * paragraphs [0042] - [0048]; figur			10	1-4,7,8,		
			-/				
-The present search report has been drawn up for all claims							
	Place of search		pletion of the search			Examiner	
Munich 20 J CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background		20 Ja	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons			ez Vega, Javier	
		ner				hed on, or	
O : non-written disclosure P : intermediate document			& : member of the same patent family, corresponding document				



EUROPEAN SEARCH REPORT

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!	DOCUMENTS CONSIDI				
Category	Citation of document with in of relevant passa		priate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 497 532 A (GLA 12 March 1996 (1996 * columns 3-4; figu	-03-12)	DE])	1-4,7,8,	
					TECHNICAL FIELDS SEARCHED (IPC)
					SEARCHED (IPC)
	-The present search report has b	een drawn up for all	olaims	-	
	Place of search		eletion of the search		Examiner
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X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone cularly relevant if combined with anoth unent of the same category nological background written disclosure	er	T: theory or principl E: earlier patent do after the filing dat D: document cited i L: document cited for	cument, but publis e n the application or other reasons	vention hed on, or



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	CLAIMS INCURRING FEES					
	The present European patent application comprised at the time of filing claims for which payment was due.					
10	Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):					
15	No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.					
20	LACK OF UNITY OF INVENTION					
	The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:					
25						
	see sheet B					
30						
	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.					
35	As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.					
40	Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:					
45	None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:					
50	1-4, 7, 8, 10					
55	The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).					



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LACK OF UNITY OF INVENTION SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely: 1. claims: 1-4, 7, 8, 10 10 cleaning accessory with intermediate points 2. claims: 5, 6 15 cleaning accessory with spacers 3. claim: 9 20 cleaning accessory with particular power/ suction width ratio 25 30 35 40 45 50 55

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-01-2016

10	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
15	GB 2067889 A	05-08-1981	BE 883020 A1 GB 2067889 A NL 8002434 A	18-08-1980 05-08-1981 17-08-1981
15	US 5157805 A	27-10-1992	NONE	
	US 1039383 A	24-09-1912	NONE	
20	EP 0642758 A	1 15-03-1995	BE 1007489 A3 EP 0642758 A1 JP H0779892 A US 5561884 A	11-07-1995 15-03-1995 28-03-1995 08-10-1996
25	GB 2240467 A	07-08-1991	NONE	
	US 1951316 A	13-03-1934	NONE	
	US 4275478 A	30-06-1981	NONE	
30	US 6421875 B	1 23-07-2002	NONE	
35	US 2010319159 A	1 23-12-2010	AU 2010261574 A1 CN 101926628 A EP 2442701 A1 JP 5165027 B2 JP 2011000447 A KR 20120027358 A US 2010319159 A1 WO 2010146382 A1	19-01-2012 29-12-2010 25-04-2012 21-03-2013 06-01-2011 21-03-2012 23-12-2010 23-12-2010
40	US 5497532 A	12-03-1996	DE 4304682 A1 EP 0611545 A1 JP H06339443 A US 5497532 A	25-08-1994 24-08-1994 13-12-1994 12-03-1996
45				
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55 8590 WHOJ				

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82